
State of Animal Health Emergency Management:

Producer Perspective

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Recent Foreign Animal Disease Outbreaks

- Haiti - Classical Swine Fever, August 1996
 - Netherlands - Classical Swine Fever, February 1997
 - Taiwan - Foot-and-Mouth Disease, March 1997
 - Dominican Republic - Classical Swine Fever, August 1997
 - Malaysia - Nipah Virus, 1998
 - Korea, Japan, Argentina, Brazil, Egypt, and South Africa - Foot-and-Mouth Disease, 2000
 - U.K. - Classical Swine Fever, 2000, Foot-and-Mouth, 2001
-

Increasing Risk of a Foreign Animal Disease

- International Visitors
 - U.S. Producer/Veterinarian Travel
 - Increase in Imports
 - Illegal Importation of Products and Animals
 - Bioterrorism
-

Economic Effects of a Foreign Animal Disease

- Producers
 - Practitioners
 - Feed Industry
 - Pharmaceutical Industry
 - Livestock Markets
 - Packers
 - Consumers
-

1997-1998 Classical Swine Fever Outbreak in The Netherlands

■ Industry - Prior to Outbreak

- 21,000 herds, 24 million annual slaughter
 - » < 1/4 size of U.S. pork industry

■ Cost of Epidemic - \$3 Billion

	\$US Million
- Eradication Activities	\$ 490
- Buying out (Welfare, Pre-emptive)	\$ 970
- Production Losses	\$1,500

■ Depopulated 12,392,000 Million Pigs

Loss of Export Markets



Increasing Need for Partnerships

- Decreased Government (State and Federal) Personnel
 - Decreased Government Funding
 - Increased Complexity of Animal Health Issues/Needs
 - Integration of Local, National, and International Perspectives in Decision-making
-

Paradigm Shift - Call Government to Everyone Has Role

“A sense of shared responsibility between the animal industry, practitioners, and State and Federal government animal health officials should replace the attitude of emergency management being solely a Federal responsibility.”

National Animal Health Emergency Management Steering Committee

- Started March 1996 as a Working Group
 - Quarterly Meetings
 - Monthly Conference Calls
 - Workshops for State and Federal Animal Health Officials and Industry
-

NAHEMS Steering Committee

- Animal Agriculture Coalition (AAC)
 - American Veterinary Medical Association (AVMA)
 - U.S. Animal Health Association (USAHA)
 - U.S. Department of Agriculture (USDA)
 - Animal and Plant Health Inspection Service (APHIS)
 - Agricultural Research Service (ARS)
 - Cooperative State Research, Education, and Extension Service (CSREES)
 - Food Safety and Inspection Service (FSIS)
 - Office of Crisis Planning and Management
 - Federal Emergency Management Agency (FEMA)
 - National Emergency Management Association (NEMA)
 - American Association of Veterinary Laboratory Diagnosticians (AAVLD)
-

Who is the AAC?

AESOP Enterprises, Ltd.

American Association of Equine Practitioners

American Dairy Science Association

American Farm Bureau Federation

American Feed Industry Association

American Horse Council

American Meat Institute

American Sheep Industry Association

American Society of Animal Science

American Veal Association

American Veterinary Medical Association

Animal Health Institute

Association of American Veterinary Medical Colleges

Catfish Farmers of America

Council for Agricultural Science and Technology

Federation of Animal Science Societies

Holstein Association U.S.A., Inc.

Livestock Marketing Association

National Association of Federal Veterinarians

National Aquaculture Association

National Cattlemen's Beef Association

National Chicken Council

National Farmers Union

National Institute for Animal Agriculture

National Milk Producers Federation

National Pork Board

National Pork Producers Council

National Renderers Association

National Turkey Federation

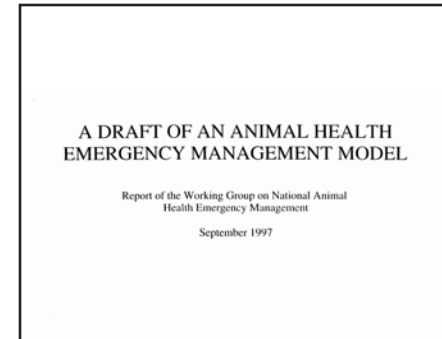
North American Elk Breeders Association

U.S. Animal Health Association

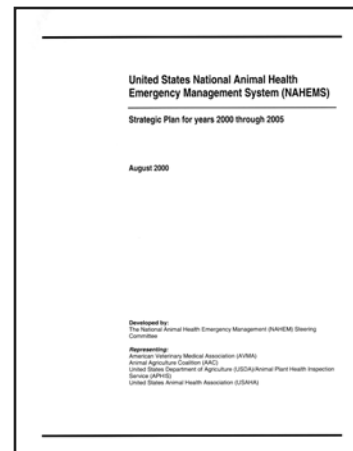
U.S. Poultry and Egg Association

NAHEMS Steering Committee - Key Accomplishments

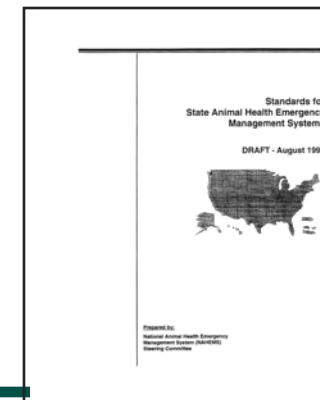
■ Animal Health Emergency Management Model



■ Strategic Plan



■ Standards for State Animal Health Emergency Management Systems



Animal Health Emergency Model

- Defines Roles and Responsibilities for Federal, State and Industry Groups for:
 - Prevention
 - Preparedness
 - Response
 - Recovery
-

Prevention - Producers/Practitioners

- Provide input in development of import policies
 - Pass on information on health status of other countries
 - Develop priorities for research
 - Solicit funding for activities of State and Federal animal health officials
-

Preparedness - Producers/Practitioners

- Encourage reporting of suspicious events
 - Participate in test exercises
 - Disseminate educational information
-

Response - Producers/Practitioners

- Active participants in decisions on quarantine zones, disposal methods, and use of vaccines
 - Distribute information on outbreak situation
 - Encourage reporting
-

Recovery - Producers/Practitioners

- Assure availability of indemnity funds
 - Provide feedback to improve future responses
-

Strategic Plan - Five Goals

1. Build an Effective and Coordinated National Response Infrastructure.
 2. Develop Coordinated Emergency Response Plans and Agreements.
 3. Improve the National Animal Health Surveillance System.
 4. Improve the Research and Development that Support the NAHEMS.
 5. Expand Training, Education, and Public Awareness to Support the NAHEMS.
-

State Animal Health Emergency Management System Standards

- Emergency Management Plans
 - Written Agreements
 - Authorities and Policies
 - Surveillance
 - Communication
 - Training and Education
 - Funding
-

State Self-Assessment - 1999 vs. 2001

■ Written Emergency Response Plan

- 1999 33 States
- 2001 46 States

■ Written Agreements - State and Federal

- 1999 18 States
- 2001 32 States

■ Surveillance - Require Reporting List A Diseases

- 1999 28 States
- 2001 41 States

■ Training and Education

- 1999 18 States
 - 2001 27 States
-

2001 ANNUAL REPORT

United States National Animal Health Emergency Management System (NAHEMS)



March 2002

Developed by:
The National Animal Health Emergency Management (NAHEM)
Steering Committee

Representing:

American Veterinary Medical Association (AVMA)
Animal Agriculture Coalition (AAC)
American Association of Veterinary Laboratory Diagnosticians (AAVLD)
Federal Emergency Management Agency (FEMA)
National Emergency Management Association (NEMA)
United States Department of Agriculture (USDA)
Agricultural Research Service (ARS)
Animal and Plant Health Inspection Service (APHIS)
Cooperative State Research, Education, and Extension Service (CSREES)
Food Safety and Inspection Service (FSIS)
United States Animal Health Association (USAHA)

Industry Guidelines

- National and State/Affiliate Organization Surveys
 - Sent Sept. 2000

 - Industry Survey Results Presentation
 - USAHA 2000

 - Industry Guidelines Developed from Survey

 - Industry Guidelines Reviewed
 - NAHEMS Steering Committee
 - » Partnership and Standards Subcommittee
 - Animal Agriculture Coalition
-

Industry Guidelines

- National Industry Guidelines
- Regional/State/Local Industry Guidelines

National Industry Guidelines

- A. Emergency Management Plan
 - B. Written Agreements
 - C. Authorities and Policies
 - D. Surveillance
 - E. Communication
 - F. Training and Education
 - G. Funding
 - H. Cross-Species Coordination
-

A. Emergency Management Plans

- Identify key industry contacts to notify in the event of an emergency and the process for notification.
 - Designate industry leaders for key decision making to represent industry's views.
 - Outline roles and responsibilities of industry leaders, health committees, and staff.
 - Develop industry emergency contacts in each state/regional affiliate organization.
-

A. Emergency Management Plans

- Provide a description of how industry will participate in the development, implementation, and exercise of federal or national response plans.
 - Provide an outline to state/regional affiliates for participation in state/national plans.
 - Provide for industry's response to natural disasters.
 - Include periodic evaluation.
-

B. Written Agreements

- Written agreements to lay out the roles and responsibilities for each participant.
 - National industry organizations should provide in writing to USDA and States their communication plans and specific policy views on control and eradication procedures.
-

C. Authorities and Policies

- Review of current USDA Standard Operating Procedures.
 - Asking regional/state organizations to review the Standards for State Animal Health Emergency Management Systems, discuss their state's assessment with their state and federal animal health officials, and develop and implement a plan to address areas needing improvement.
 - Participation in disease specific workshops on procedures and policy development.
-

C. Authorities and Policies

- Development of industry views on control and eradication procedures for specific diseases including carcass disposal and use of vaccines.
 - Development of industry views on zoning.
 - Understanding the process for an emergency and an extraordinary emergency declaration and their purposes.
 - Understanding current USDA and State authority.
-

D. Surveillance

- Review the list of reportable diseases for your industry with APHIS.
 - Understand how States address these reportable diseases.
 - Understand the current surveillance program for diseases in your industry.
 - Encourage state/local industry groups to participate with state-based surveillance plans.
-

E. Communication

- Identify important contacts in the event of an animal health emergency.
 - State and Federal animal health and emergency management officials
 - Industry leaders
 - Industry
 - Private sector experts
 - Media
 - National farm organizations
 - National veterinary organizations
 - Develop a communication plan that keeps your industry informed from the initial diagnosis of a foreign animal disease through the conclusion of the incursion. The plan should complement USDA and state plans. Include strategy for print, broadcast, web, news releases, state associations, staff, etc. Include strategy for initial notification and then subsequent reports. Include timelines for specific elements of communication plan.
 - Provide an industry contact list with office phone and fax numbers, email addresses and home numbers to USDA and state animal health officials.
 - Develop or support risk communication plans for disease agents to explain their animal health and public health significance.
-

F. Training and Education

- Develop biosecurity protocols that specifically address foreign animal disease prevention.
 - Develop and implement awareness programs for your industry of the risks of foreign animal diseases and appropriate biosecurity practices. The biosecurity practices should include protocols to address additional biosecurity needs for infected and non-infected herds after the diagnosis of a foreign animal disease has been made. (This could include presentations to animal health committees, industry newsletters, state programs, articles in trade magazines, etc.)
 - Develop awareness plan for producers including when and how to report a suspicious situation and their responsibilities.
 - Develop awareness plan for state/affiliate associations.
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F. Training and Education

- Make your industry's animal health committee aware of National Animal Health Emergency Management System Steering Committee activities.
 - Maintain a file of background information on foreign animal diseases of concern for your industry.
 - Develop a guide for producer participation in test exercises.
 - Have key staff understand and/or complete specific Federal Emergency Management Agency training courses.
 - Participate in test exercises.
 - Be aware of training and education programs for diseases of concern to your industry for State and Federal animal health officials, practitioners, and laboratory diagnosticians.
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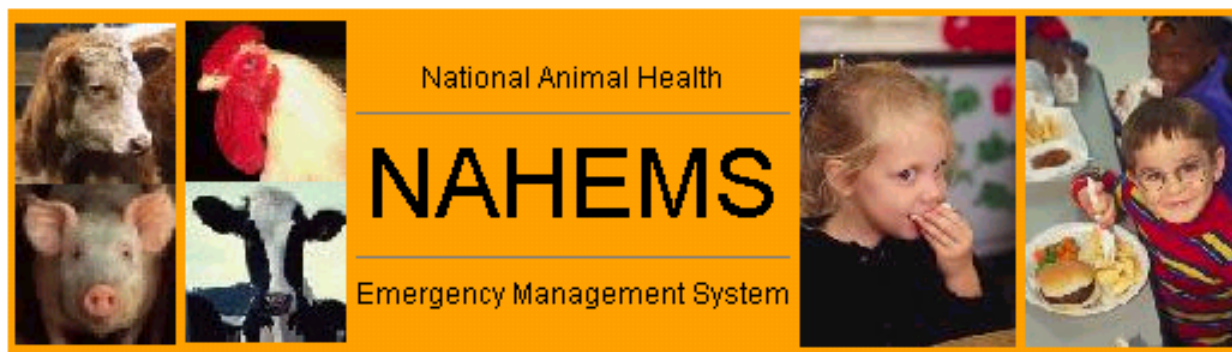
G. Funding

- Understand the Federal process for obtaining emergency funds.
 - Develop and implement a plan to support adequate funding for emergency management activities.
 - Explore risk management strategies for their industry.
 - Explore contingency plans for industry funding.
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H. Cross-Species Coordination

- Develop plan for coordination of communication and response in case of diseases that affect multiple species.





Hot Topics

- [Current Disease Issues](#)
- [Current Natural Disaster Issues](#)

Resources

- [Steering Committee](#)
- [OIE Reportable Diseases](#)
- [Strategic Plan](#)
- [Ag Bioterrorism Concerns](#)
- [State Standards](#)
- [Training Opportunities](#)

Links

- [State Animal Health Emergency Management Systems](#)
- [Key Organizations/Partners](#)

NAHEMS is a joint state-federal-industry effort to improve the United States' ability to deal successfully with animal health emergencies. These emergencies can range from flood and drought to introductions of deadly foreign animal diseases such as foot-and-mouth disease, hog cholera, or African swine fever.

In addition to addressing the threat of a major foreign animal disease outbreak, NAHEMS looks at bioterrorism, emerging diseases, and diseases that pose a threat to production and international trade.

By being better able to deal with animal health emergencies, we reduce the threat to the nation's food supply and help maintain the economic well-being of U.S. animal agriculture.

Our focus is on four key elements:

- Prevention
- Preparedness
- Response
- Recovery

Producer Educational Efforts

- Producer On-Farm Biosecurity
 - Information in Publications
 - Videos
 - Presentations
 - Satellite Programs
 - Mailings
 - Radio Interviews
 - Websites
 - Quality Assurance Programs
-

of critical prevention and response capabilities. The pork industry has been involved in several activities working to prevent an outbreak, including representation on the US/WHO Secretary of Agriculture's Advisory Committee on Foreign Animal and Poultry Diseases, participation in the Animal Health Safeguarding Review, being a founding member of the National Animal Health Emergency Management Steering Committee and participation in foreign animal disease exercises for Clinical Swine Fever and FMD at the state and national level. Pork industry checkoff dollars are used for research focusing on development of vaccines and improved diagnostic tools at the USDA Agricultural Research Service's National Animal Disease Center.

What is biosecurity?

biosecurity consists of the rules and procedures implemented to protect the health of a herd and avoid entry of any new disease into the herd. Awareness is the key to biosecurity. Producers must train the folks on their farm and take moderate steps to manage those risks. Because more new diseases exist, the more herd health, animal and people resources and cooperation, addressing those situations are essential in a good biosecurity program. Producers should discuss their biosecurity program with their veterinarian.

How can producers use
biotechnology to protect herds from
mad?

Much work is being done on the national level to prevent FMD and other foreign animal diseases from entering the United States. The 1 quarantine practices that are used producers to protect herds from domestic diseases provide protection against foreign animal disease entry. These practices include

- Insure new truck for a per diem amount after consulting the bond association.
- Hire only truckers who:
 - Insure and whose vehicles have visually inspect all in loading and reject if not properly clear.
 - If hire trucks are a clean, inspect an each other yard.
 - Charge double a visiting other by trucks, those
 - provide a close to rendering payment of
 - otherwise an



FOREIGN ANIMAL DISEASES

How Can I Protect My Herd?

Fist and Mouth Disease (FMD) outbreaks have caused severe animal and economic losses in the United Kingdom, Europe and elsewhere. With the proliferation of worldwide trade, animal movement, and people travel, it would take only one biosecurity breakdown to allow FMD to enter the United States. Checkoff dollars have been used to protect the U.S. away from foreign animal diseases such as FMD by working closely with governmental agencies charged with safeguarding the United States, and developing educational materials for producers and other practitioners.

The more recent outbreaks of this extremely contagious disease in Europe resulted in the cancellation of the 2002 World Pork Expo to avoid the possibility of PSE being brought to the United States. Approximately 42,000 pork producers and consumers were expected to attend the 14th World Pork Expo, including about 2,000 international visitors from 60 countries around the world. The pork industry decided the possibility of the U.S. being infected by a foreign animal disease was a risk it didn't want to take.

What are the signs and consequences of FMD?

FMD is a highly contagious viral disease that affects cloven-footed animals such as cattle, swine, sheep and deer. Signs of the disease include fever and blister-like lesions on the tongue and lips, in the mouth, on the snout and between the hooves. Animals can recover from the disease, but FMD causes severe losses in meat and milk production and ferres the animal debilitated. Due to the zoonotic nature of the disease and its consequences, infected herds are destroyed. People can survive if the virus contaminates their food and the body cavity of the chest and nasal cavity. Recovery of humans with extremely rare and consists of a disease with accompanying fever lesions.

What is being done in the United States to prevent an outbreak of FMD?

At the national level, the pork industry has worked with other commodity groups, state and federal animal health officials, and veterinarians to ensure implementation

"We have seen tremendous deterioration in countries around the world from First and Second Economic meltdowns. The U.S. has been free of First and Second Economic since 1929, and we don't want to take any risk of a possible meltdown permanently spreading through the festering of World Park Cops, an event attacked by pork producers and pork industry leaders around the world," said Sen. Murray, R-UT. President and pork shaver from Carly Jones.

The pork industry has many resources available to help pork producers protect their herds. The following are some commonly asked questions by pork producers regarding the prevention of foreign animal disease.

How does FMD virus spread?

Biosecurity practices are very important as the EMD virus can be introduced into a herd through a variety of means.

- People wearing contaminated clothes or footwear or using contaminated equipment
- Accidents carrying the virus
- Contaminated facilities or vehicles
- Raw or improperly cooked shell containing contaminated meat or animal products
- Any strain, feedstuff or other materials contaminated with virus
- Wind (aerosol)

What are some examples of FMD virus survival times or distances?

Virus survival times depend on temperature, humidity and other factors. Examples from literature chosen for FMD virus survival include:

- **Breeding** 4 weeks
- **Claying** starts 2 weeks
- **Feeding** winter 14 weeks
- **Soil** summer 9 weeks
- **Water** winter 14 weeks
- **Winter** summer 5-7 days
- **Winter** summer 4 weeks
- **Winter** winter 21 weeks
- **Winter** over land 17 miles
- **Winter** over sea 135 miles
- **Winter** land passages 400
- **Winter** horses (winter) at 20 h



s Way!
 presume Family of
 ...breath you!

- Stimulate action for the firm and motivate customers and hydrogen sulfide plants
- Heating and cooling systems, fuel and gas lines
- Light-emitting diodes for windows
- Fluorescent neon signs compared with incandescents
- Stimulate customer actions to reduce health
- Environmental safety assessment systems available for customer management and cost saving
- Identify relationships of flow and gain for managing the fluid reaction for the thermal stage of fluid reaction
- Material synthesis action decreases self-build up in the material system by creating a low-flow, pumping, material system

For more information, contact:
Spartan Chemical
 Company, Inc.
 1110 Spartan Drive
 Mount Airy, NC 28559
 1-800-537-6090
www.spartanchemical.com

FMD & BSE

What every producer needs to know.



**The United States
is working to remain
free of BSE and FMD.
Preventing
these different diseases
requires different
actions.**



National Cattlemen's Beef Association • P.O. Box 3469, Englewood, CO 80155 • www.beef.org
FMD & BSE information programs are funded in part with beef checkoff dollars on behalf of the Cattlemen's Beef Board.





Quality Assurance[®]

A Program of America's
Pork Producers

2001 EDITION



F. Computers

- Restrict access to computers.
- Protect data with virus protection programs.
- Connect critical computers to Uninterruptible Power Supplies.
- Give each user a password and change passwords frequently.
- Use encryption to protect passwords and usernames.
- Set the computer to time out and ask the user to login again after a certain period of inactivity.
- Lock desktop computers and monitors to office furniture using cable locks.
- Protect wiring from environmental damage and tampering using conduit.
- End computer access when an employee is terminated.
- Back up all data frequently.
- Review procedures for backing up critical data systems periodically.
- Test the data security system and procedures periodically.

G. Preparation for an emergency

- Maintain a protocol for triaging and investigating emergencies.
- Identify critical security decision makers to whom employees should report security problems.
- Call herd veterinarian immediately if a foreign animal disease is suspected (See Agrotech).
- The herd veterinarian will notify authorities if warranted.
- Post contact information for fire, police, and other emergencies.
- Identify a person to handle the media and provide them with press statements and background information for the farm.
- Maintain and clearly post an evacuation plan. Give the evacuation plan and a current map to the local fire department. Have evacuation drills to periodically test the plan.
- Include strategy for continued operation (e.g. alternate facility).
- Keep a current inventory of all hazardous materials and flammable products.
- Maintain an employee roster and visitor log to enable a head count if evacuation is required.

Backup records to keep on and off site in case originals are destroyed

- Prioritized list of supplies, equipment, and facilities needed to maintain function
- Inventory of equipment and supplies (part numbers, quantity kept on hand)
- Accounts receivable
- Accounts payable
- List of customers names and contact information
- List of suppliers' names, contact information, items you purchase and how much
- Vehicle maintenance schedules, payment schedules, and registration information
- Exact payroll numbers

Security

Guide for Pork Producers



Security Guide for Pork Producers

■ Purpose

- Review current security procedures at farm level
 - Increase pork producers' awareness of security risks
 - Develop farm specific security plans that will be effective and efficient
 - Enhance farm level security
-

Security Guide - Content

- A. Preventing unauthorized entry
 - B. Employees
 - C. Hazardous materials
 - D. Deliveries
 - E. Phone threats
 - F. Computers
 - G. Preparation for an emergency
 - H. Recall strategy for semen or pig shipments
 - I. Agroterrorism
 - J. Water security
 - K. Feed
 - L. Evaluation of security program
-

Security Guide for Pork Producers

A. Preventing unauthorized entry

7. Visitors

- Have a “No Visitor” policy for non-service individuals if possible.
 - Have a separate policy in place for essential visitors such as consultants, service people, and health professionals...
 - Post signs to inform all visitors of rules.
 - Designate a parking area for all visitors.
 - Escort non-service visitors at all times. Visitors should never be allowed to wander the premises.
-

Biosecurity Guide for Producers

Isolation Bio

The greatest risk of pathogen introduction to a herd is by infected and susceptible pigs is the most efficient way to a safeguard against such transmission. Isolation allows of disease before herd entry. Isolation also gives the pr with certain pathogens and to acclimate or vaccinate i eases. Failure to isolate new stock offers the greatest r

1. Do you use an isolation facility for incoming repla

- If you answered no to 1., are all replacement
 - If you answered yes to 1.a, disregard the section.
 - If you answered no to both 1. and 1.a, at very high risk for introduction of a r questionnaire as a guide to develop an
- If you answered yes to 1., continue with the

2. Is the isolation facility located...

- Less than 300 yards from any other swine
- Greater than 300 yards from any other swine
- Greater than 2 miles from any other swine

3. Is the isolation facility...

- Completely outdoors/open?
- Indoor/Outdoor?
- Totally enclosed (100% confinement)?

4. Is pig flow through the isolation facility...

- Continuous flow?
- All-in/All-out without cleaning between
- All-in/All-out with cleaning, disinfect

5. Is the duration of isolation...

- Less than 30 days?
- 30-60 days?
- 60 days or more?

Biosecurity

Guide for Pork Producers



stem? _____ Unacceptable
 returning to the system? _____ Unacceptable
 the next day _____ Questionable
 no contact? _____ Adequate
 _____ Excellent

replacements in isolation:

_____ Unacceptable
 _____ Questionable
 _____ Adequate
 _____ Excellent
 source herd veterinarian
 entry of replacements _____ Excellent

includes:

_____ Questionable
 _____ Questionable
 _____ Adequate
 of clinical signs _____ Excellent
 clinical signs, _____ Questionable
 tion _____ Excellent
 in isolation _____ Questionable

known pathogens of concern:

_____ Unacceptable
 _____ Unacceptable
 _____ Adequate
 in isolation _____ Excellent

_____ Unacceptable
 _____ Questionable
 herd following _____ Adequate

to entry into the _____ Excellent
 30 days isolation _____ Excellent
 turning coordination of blood testing and vaccination to

Biosecurity Guide for Pork Producers

■ Purpose

- Review current biosecurity procedures and identify strengths and weaknesses
 - Increase pork producers' awareness of biosecurity principles
 - Promote more cautious behavior if risk cannot be avoided
 - Reduce the risk of a new disease agent being introduced into the herd
-

Biosecurity Guide - Content

■ Isolation Biosecurity

- Facility location
 - Pig flow
 - Personnel
 - Health monitoring and interpretation
 - Acclimation
-

Biosecurity Guide - Content (cont'd)

■ Indirect Spread

- Facility location
 - Access deterrents
 - Pest and wildlife control
 - Feed
 - Transportation
 - Personnel and visitors
 - Semen
 - Cleaning and disinfecting
 - Carcass removal
 - Supply and product deliveries
-

Biosecurity Guide for Pork Producers

■ Isolation Biosecurity

4. Is pig flow through the isolation facility...

- a. Continuous flow?Unacceptable
- b. All-in/All-out without cleaning between groups?Questionable
- c. All-in/All-out with cleaning,, disinfection, and downtime
between groups?Excellent

5. Is the duration of isolation...

- a. Less than 30 days?Unacceptable
 - b. 30-60 days? Adequate
 - c. 60 days or more?Excellent
-

Emergency Preparedness Research

■ ARS National Planning Workshop 2001

- Develop knowledge of animal disease characteristics outside of live host.
 - Improve methods of disease agent eradication on-farm and in post-harvest processing.
 - Develop optimal response mechanisms for large-scale, on-farm animal mortality and product contamination.
 - Develop optimal on-farm recovery protocols resulting from catastrophic animal disease.
-

Foreign Animal Disease Vaccination Questions

- Decision Matrix Available?
 - Validity of Assumptions?
 - Prevent Infection?
 - Reduce Shedding/Spread?
 - Repeat Vaccinations Needed?
 - Differential Tests?
 - Marker Vaccines?
 - Acceptance of Products from Vaccinated Animals?
 - International Trade
 - Consumers
 - Cost of Vaccination?
 - Broad Coverage - Serotypes?
-

Bioterrorism - Industry Activities

- Participation in Workshops/Meetings
 - Food System Biosecurity Workgroup
 - » “To assist the food industry and government in developing effective measures to prevent, detect and respond to a potential bioterrorist attack involving the food system”
 - Alliance for Food Security
-

“Virtual Safety Net” - We All Have a Role

